Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-05-03-02** **Date: 05-05-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10

Customer's Reference : BBMP/EE/BTP/WO/08 /2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-05-18

Sample ID No : 2018-05-03-02 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-05-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	179	333	33.3	66.7	30-70	55-90	75-100	90-100
5	600 micron	245	578	57.8	42.2	15-34	35-59	60-79	80-100
6	300 micron	182	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	178	938	93.8	6.2	0-10	0-10	0-10	0-15
8	Pan	62	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

N.D

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-05-03-02** **Date: 05-05-18**

Sample ID No : 2018-05-03-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.08	_
2	Specific Gravity	2.57	_
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-18-03** **Date: 22/05/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10

Customer's Reference : BBMP/EE/BTP/WO/08 /2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-18

Sample ID No : 2018-05-18-03 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/05/2018	22/05/2018	149.57 X 150.44 X 150.63	22501	8.143	396.0	17.6	17.9
2	M20 Concrete	M20	15/05/2018	22/05/2018	150.74 X 150.44 X 149.67	22677	8.178	410.5	18.1	
3	M20 Concrete	M20	15/05/2018	22/05/2018	150.27 X 149.63 X 150.74	22485	8.207	402.5	17.9	

Note:

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Applied. N.O
AE(HT)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Date.....
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-18-03** **Date: 12/06/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10

Customer's Reference : BBMP/EE/BTP/WO/08 /2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-18

Sample ID No : 2018-05-18-03 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	15/05/2018	12/06/2018	150.17 X 150.79 X 150.23	22644	8.194	514.0	22.7	22.9
2	M20 Concrete	M20	15/05/2018	12/06/2018	150.43 X 150.77 X 150.43	22680	8.153	528.5	23.3	
3	M20 Concrete	M20	15/05/2018	12/06/2018	150.46 X 150.05 X 150.72	22577	8.149	514.7	22.8	

Note:

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AE(CT)

Assistant Executive Engineer,
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Bangalore.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-05-31-02** **Date: 04/06/2018**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10
Customer's Reference	:	BBMP/EE/BTP/WO/08 /2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	31-05-18
Sample ID No	:	2018-05-31-02 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/05/2018	04/06/2018	150.55 X 150.82 X 150.48	22707	8.370	284.3	12.5	12.6
2	PCC	M15	28/05/2018	04/06/2018	149.87 X 151.63 X 151.45	22724	8.511	283.6	12.5	
3	PCC	M15	28/05/2018	04/06/2018	150.91 X 150.21 X 149.04	22667	8.406	290.1	12.8	

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Authorized Signatory
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AE(WS)

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-05-31-02** **Date: 25/06/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10

Customer's Reference : BBMP/EE/BTP/WO/08 /2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-05-18

Sample ID No : 2018-05-31-02 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	28/05/2018	25/06/2018	149.93 X 149.71 X 150.69	22446	8.157	397.1	17.7	17.7
2	PCC	M15	28/05/2018	25/06/2018	149.66 X 150.43 X 151.59	22512	8.399	396.7	17.6	
3	PCC	M15	28/05/2018	25/06/2018	151.86 X 150.14 X 149.22	22801	8.436	402.6	17.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-06-04-02** **Date: 08/06/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura

Agency : Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10

Customer's Reference : BBMP/EE/BTP/WO/08 /2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-06-18

Sample ID No : 2018-06-04-02 /03

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	01/06/2018	08/06/2018	151.93 X 149.46 X 151.25	22708	**8.134**	273.8	12.1	12.2
2	PCC	M15	01/06/2018	08/06/2018	150.91 X 149.29 X 150.82	22528	**8.355**	281.8	12.5	
3	PCC	M15	01/06/2018	08/06/2018	150.19 X 149.65 X 150.16	22476	**8.050**	272.8	12.1	

Note:

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Technical Manager

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Assistant Executive Engineer,
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/06/2018

Lab ID	:	CP-2018-06-04-02
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10
Customer's Reference	:	BBMP/EE/BTP/WO/08 /2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-18
Sample ID No	:	2018-06-04-02 /04
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	01/06/2018	29/06/2018	150.26 X 151.10 X 149.02	22705	8.409	402.6	17.7	17.6
2	PCC	M15	01/06/2018	29/06/2018	149.02 X 150.57 X 149.78	22438	8.188	403.3	18.0	
3	PCC	M15	01/06/2018	29/06/2018	150.54 X 149.69 X 149.26	22535	8.431	388.4	17.2	

Note:
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer.
Kodigehalli Sub Division,
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-03-02** **Date: 07-05-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10
Customer's Reference	:	BBMP/EE/BTP/WO/08 /2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-18
Sample ID No	:	2018-05-03-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.79	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Technical Manager

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Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-05-03-02** **Date: 01-06-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10
Customer's Reference	:	BBMP/EE/BTP/WO/08 /2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-18
Sample ID No	:	2018-05-03-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-05-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
2	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

The results pertain to the samples received and tested.
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

AE(WZ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-05-03-02** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10
Customer's Reference	:	BBMP/EE/BTP/WO/08 /2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-18
Sample ID No	:	2018-05-03-02 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-05-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.614	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.882	544	668	20.0%	Satisfactory	Satisfactory

Note:
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Authorized Signatory
Technical Manager

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-05-03-02** **Date: 07-05-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli-Sub Division, BBMP, Bangalore.
Project Name	:	Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10
Customer's Reference	:	BBMP/EE/BTP/WO/08 /2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-18
Sample ID No	:	2018-05-03-02 /05
Sample Type /Size	:	CC Kerb Stone/ 450*200*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	04/05/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	150.02	200.07	3.745	17673	345.4	19.5	19.5	24.4
2	B	150.03	200.04	3.718	17675	349.8	19.8	19.8	24.7
3	C	150.01	200.03	3.169	17670	339.6	19.2	19.2	24.0

Note:
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FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-03-02** **Date: 07-05-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10
Customer's Reference	:	BBMP/EE/BTP/WO/08 /2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-05-18
Sample ID No	:	2018-05-03-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	178	178	1.2	98.8	90-100
3	20 mm	7145	7323	48.8	51.2	30-70
4	10 mm	5699	13022	86.8	13.2	10-35
5	4.75 mm	1705	14727	98.2	1.8	0-5
6	Pan	273	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-05-03-02** **Date: 07-05-18**

Sample ID No : 2018-05-03-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.7**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.9**	
3	Specific Gravity	**2.66**	_
4	Bulk Density(Loose) (Kg/l)	**1.41**	_
5	Bulk Density(Compacted) (Kg/l)	**1.47**	_
6	Water Absorption(%)	**0.24**	_

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CIVIL Pro Sig..... Date..... BANGALORE

R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-05-03-02** **Date: 05-05-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Development and Improvements to roads and drains in Main Roads and cross roads in Ward No. 07, Byatarayanapura
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block Rajajinagar, Bangalore-10
Customer Reference	:	BBMP/EE/BTP/WO/08 /2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-18
Sample ID No	:	2018-05-03-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-05-03-02** **Date: 05-05-18**

Sample ID No : 2018-05-03-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R RUDRAPRASAD
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Technical Manager

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Assistant Executive Engineer
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End of Report

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